

**5 ° Congresso Nacional da AMACC - 2013**

# **Coluna Vertebral**

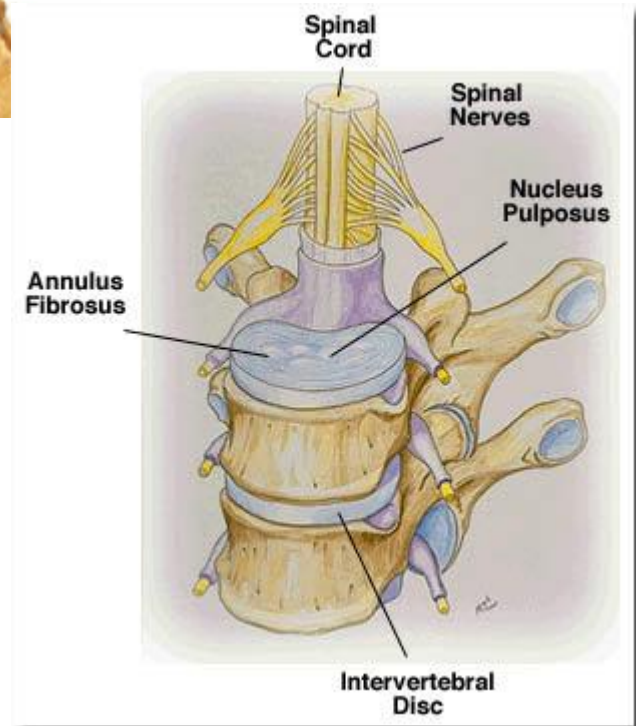
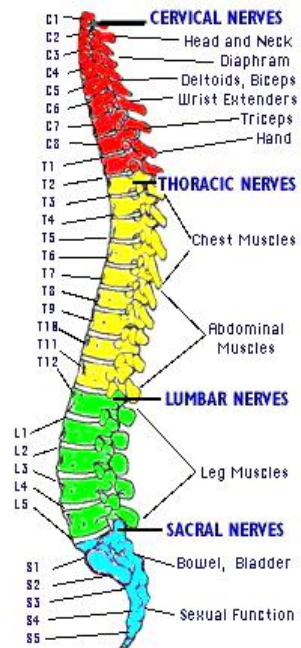
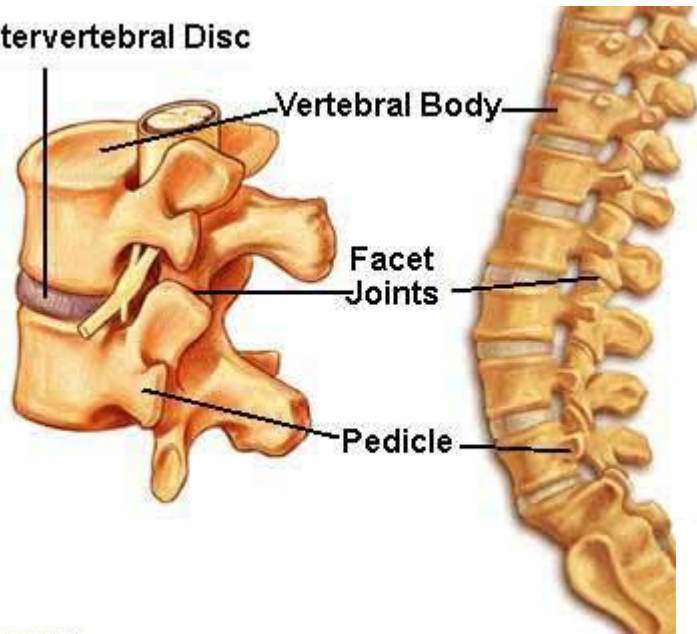
## **fixação**

**Codificação icd.9.cm**

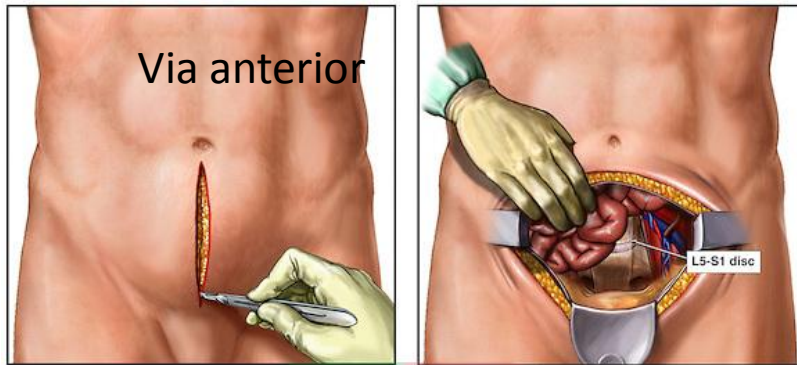


Maria Jose Seno - ULSLA

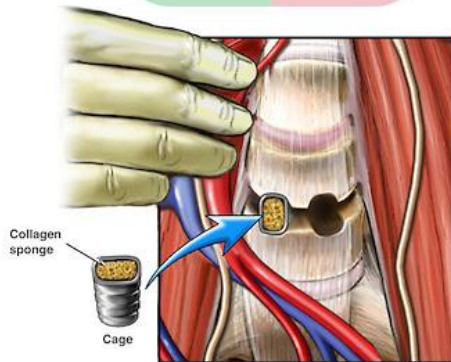
## Intervertebral Disc



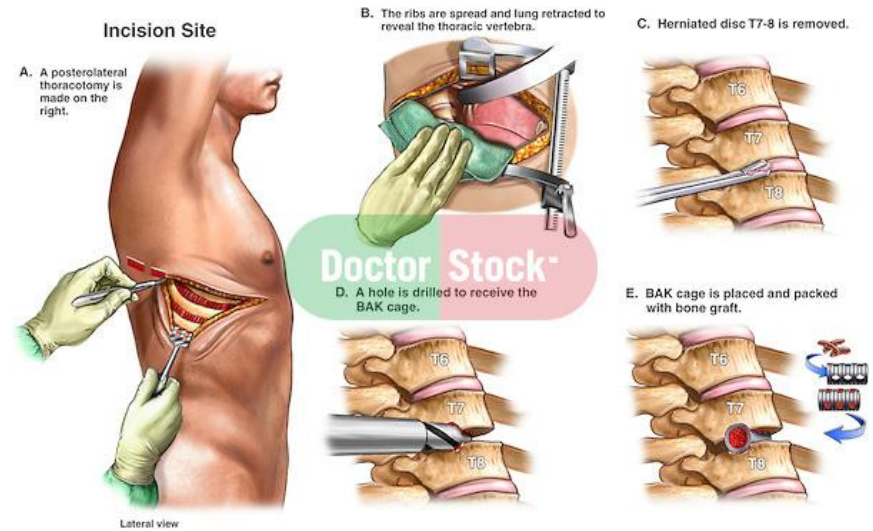
## Via anterior



Doctor Stock™



## Via anterior

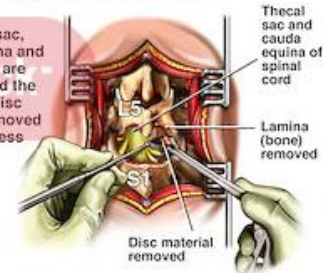


## Lumbar Decompression and Fusion Procedure

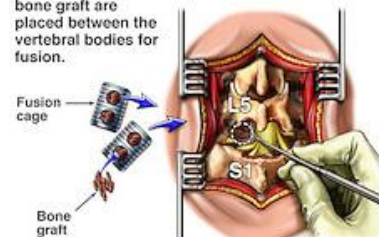
An incision is made into the lower back to expose the lumbo-sacral spine.



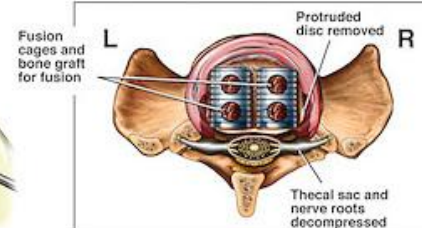
B. The thecal sac, cauda equina and nerve roots are exposed and the protruded disc material removed to decompress the spine.



Fusion cages and bone graft are placed between the vertebral bodies for fusion.



Final appearance from above with fusion cages

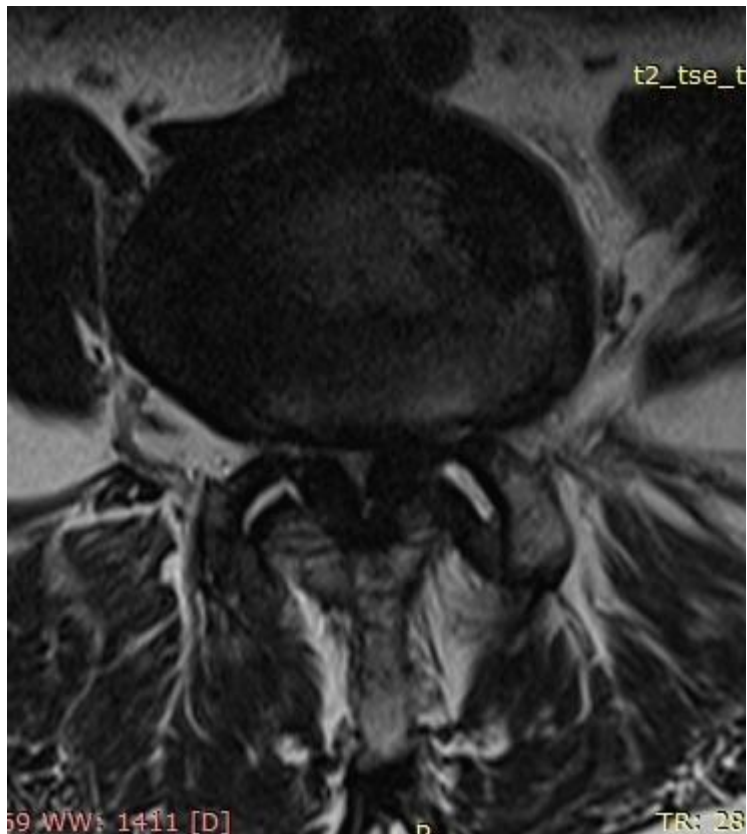


## Via posterior





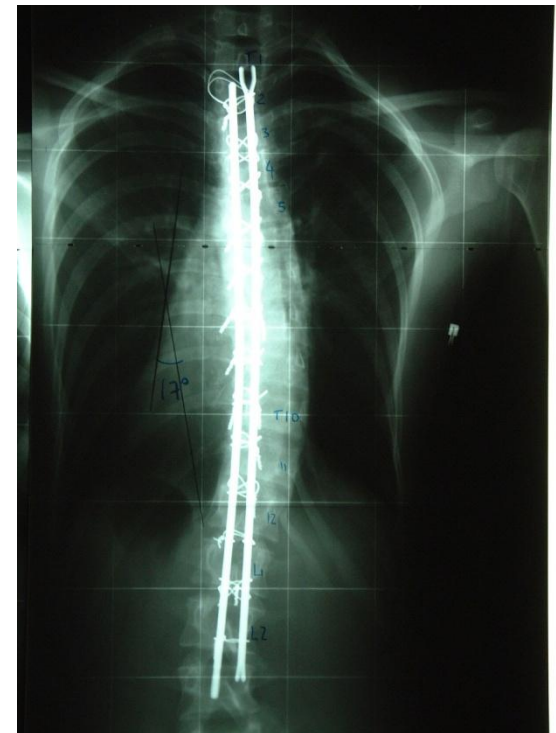
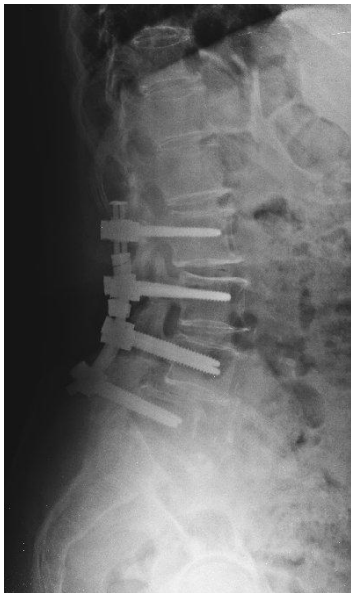
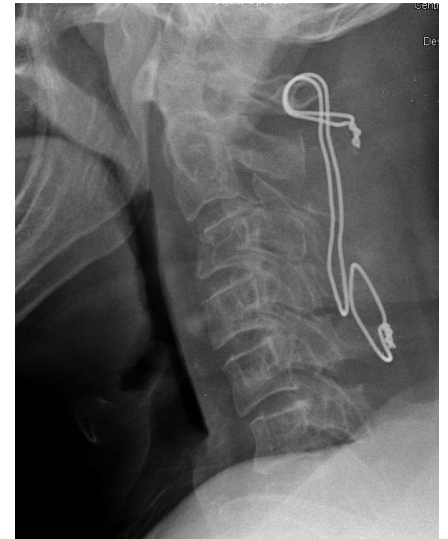
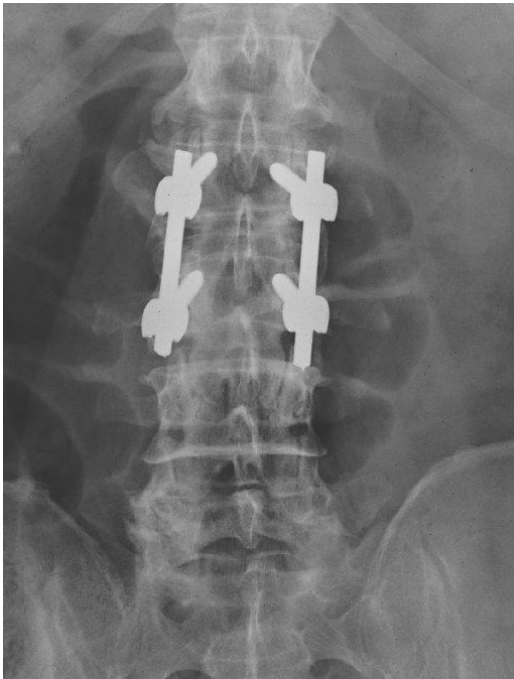
## **instabilidade após/durante cirurgia de descompressão do canal medular**



## Fraturas da coluna lombar

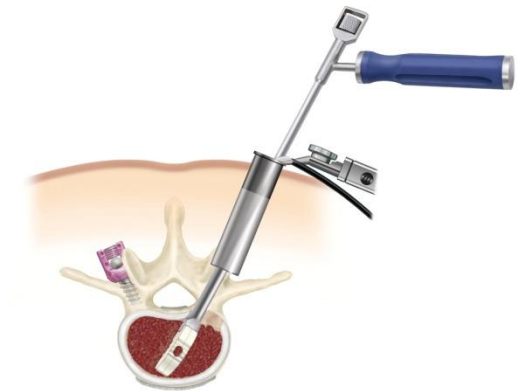


**fixação e/ou fusão por  
via posterior**









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# **Terminologia utilizada nos processos clínicos para descrever os procedimentos realizados à coluna vertebral**

**fixação**

**fusão**

**artrodese**

**redução**

**colheita de enxerto  
ósseo**

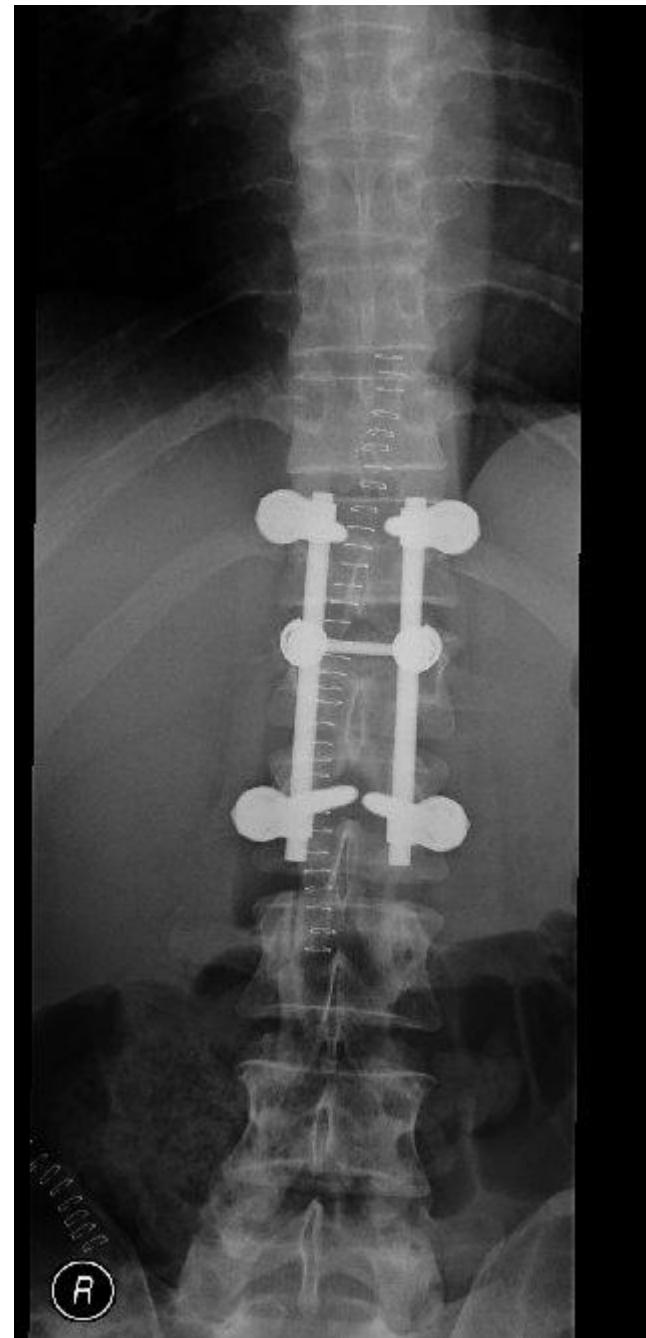
**instrumentação**

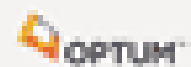
**estabilização**

**fixação**

**fusão**

**colheita de enxerto**





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**2013**  
Professional

# ICD-9-CM

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# Indice de procedimientos

## Fixation

### Bone

internal (without frac. reduc)

vertebrae

78.59

fistula, by site

**Fitting** — *continued*

spectacles 95.31

**Five-in-one repair, knee** 81.42

**Fixation**

bone

external, without reduction 93.59

with fracture reduction — *see* Reduction, fracture

cast immobilization NEC 93.53

external fixator — *see* Fixator, external

splint 93.54

traction (skeletal) NEC 93.44

intermittent 93.43

internal (without fracture reduction)

78.50

with fracture reduction — *see* Reduction, fracture

carpal, metacarpal 78.54

clavicle 78.51

femur 78.55

fibula 78.57

humerus 78.52

patella 78.56

pelvic 78.59

phalanges (foot) (hand) 78.59

radius 78.53

scapula 78.51

specified site NEC 78.59

tarsal, metatarsal 78.58

thorax (ribs) (sternum) 78.51

sternal fixation device with rigid

plates 84.94

tibia 78.57

ulna 78.53

vertebrae 78.59

breast (pendulous) 85.6

cardinal ligaments 69.22

cervical collar 93.52

**Fixation**

ureter

vagina

uterus

vagina

vagina

vagina

**Fixator**

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**Flowm**

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**Fluoros**

**Fog the**

**Folding**

mult

**Foley o**

**Fontan**

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a

**Foramin**

**Forced**

**Forceps**

**Format**

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# Lista Tabular

repair with bone graft (78.00-78.09)  
AHA: 3Q, '91, 20; 4Q, '88, 11; For code 78.41: 2Q, '02, 16; For code 78.47:  
3Q, '91, 20; For code 78.49: 3Q, '04, 9; 2Q, '03, 22; 3Q, '02, 12; 2Q, '02, 14,  
15; 4Q, '99, 22; 1Q, '97, 5

## § 78.5 Internal fixation of bone without fracture reduction

[0-9]

Internal fixation of bone (prophylactic)

Reinsertion of internal fixation device

Revision of displaced or broken fixation device

**EXCLUDES** arthroplasty and arthrodesis (81.00-81.85)  
bone graft (78.00-78.09)

insertion of sternal fixation device with rigid plates  
(84.94)

limb shortening procedures (78.20-78.29)  
that for fracture reduction (79.10-79.19, 79.30-79.59)

AHA: 2Q, '99, 11; 2Q, '94, 4; For code 78.52: 2Q, '10, 6; For code 78.55: 2Q,  
'10, 6; For code 78.59: 3Q, '04, 6; 2Q, '03, 15;  
4Q, '99, 13

§ Requires fourth digit. Valid digits are in [brackets] under each code. See appropriate category for codes



## Se se tratar de fractura e procurarmos .....

(99.86)

✓ 3<sup>rd</sup>

### 79 Reduction of fracture and dislocation

**INCLUDES**

application of cast or splint  
reduction with insertion of traction device (Kirschner wire)  
(Steinmann pin)

Code also any:

application of external fixator device (78.10-78.19)

type of fixator device, if known (84.71-84.73)

**EXCLUDES**

external fixation alone for immobilization of fracture  
(93.51-93.56, 93.59)

internal fixation without reduction of fracture (78.50-78.59)  
operations on:

facial bones (76.70-76.79)

nasal bones (21.71-21.72)

orbit (76.78-76.79)

skull (02.02)

vertebrae (03.53)

removal of cast or splint (97.88)

replacement of cast or splint (97.11-97.14)

traction alone for reduction of fracture (93.41-93.46)

The following fourth-digit subclassification is for use with appropriate





### 03.5 Plastic operations on spinal cord structures

#### 03.51 Repair of spinal meningocele

Repair of meningocele NOS

**DEF:** Restoration of hernial protrusion of spinal meninges through defect in vertebral column.

#### 03.52 Repair of spinal myelomeningocele

**DEF:** Restoration of hernial protrusion of spinal cord and meninges through defect in vertebral column.

#### 03.53 Repair of vertebral fracture

Elevation of spinal bone fragments

Reduction of fracture of vertebrae

Removal of bony spicules from spinal canal

**EXCLUDES** *percutaneous vertebral augmentation*  
(81.66)

*percutaneous vertebroplasty* (81.65)

**AHA:** 1Q, '07, 20; 4Q, '04, 126; 2Q, '02, 14; 4Q, '99, 11, 12, 13;  
3Q, '96, 14

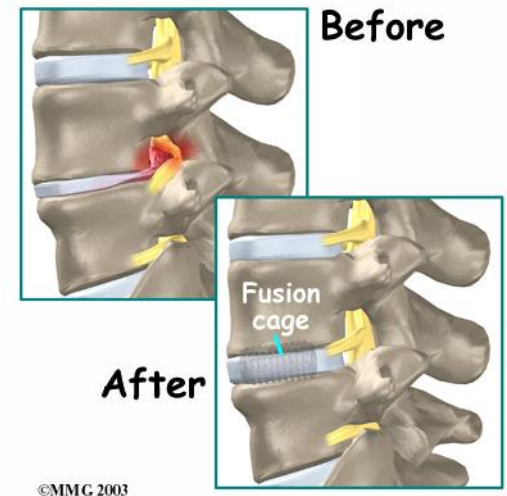
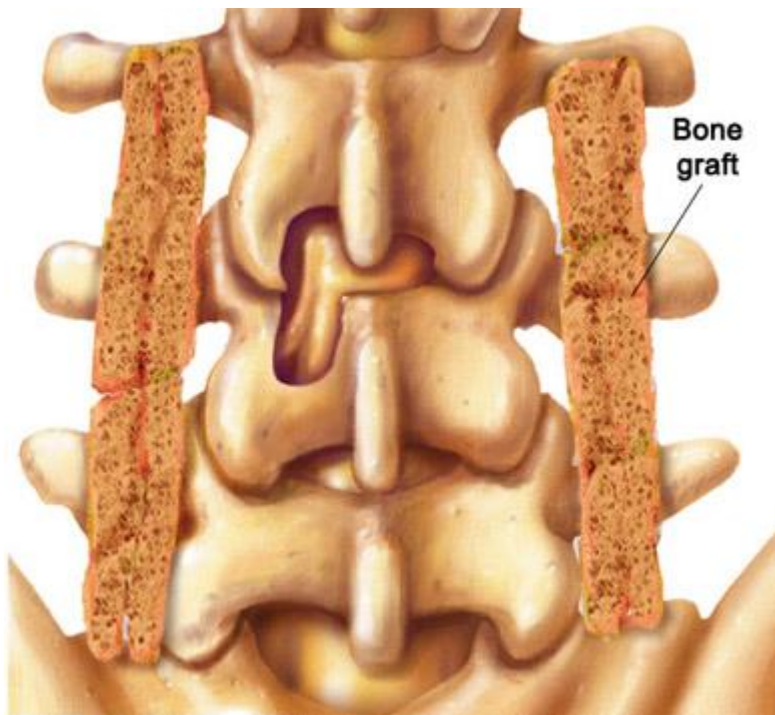


# Assim .....

O código **78.59** utiliza-se se:

- ✓ for realizada uma fixação da coluna
  - Sem artrodese
  - Sem fusão
  - Sem redução de fractura
  - Sem enxerto osseo de qualquer origem
- ✓ ou se for necessario reposicionar algum dos implantes (parafusos/barras/placas/cages) inseridos em cirurgia anterior

Na coluna vertebral, o procedimento denominado **artrodese** tem como objectivo unir vertebrae entre si, fixando-as de modo a que se estabeleçam pontes osseas definitivas.



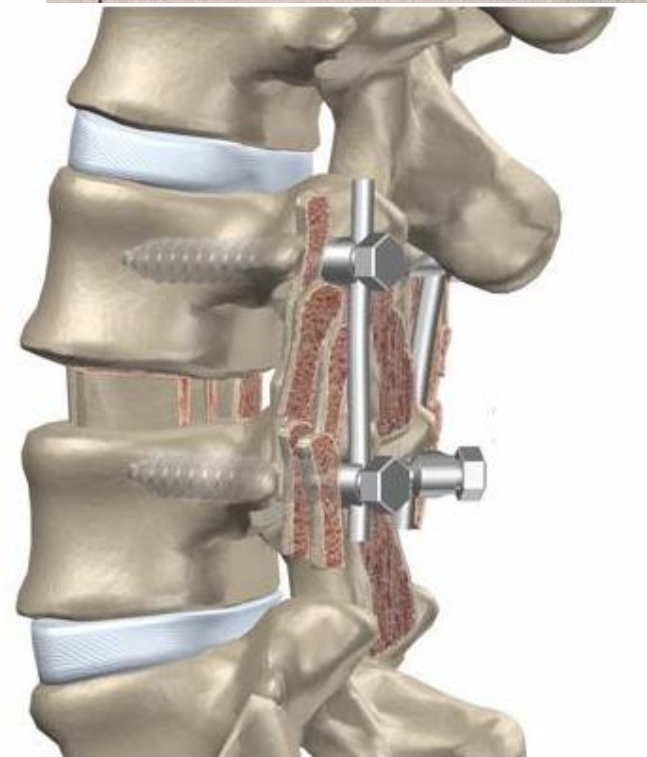
## ✓3<sup>rd</sup> 81 Repair and plastic operations on joint structures

### ✓4<sup>th</sup> 81.0 Spinal fusion

**NOTE** Spinal fusion is classified by the anatomic portion (column) fused and the technique (approach) used to perform the fusion.

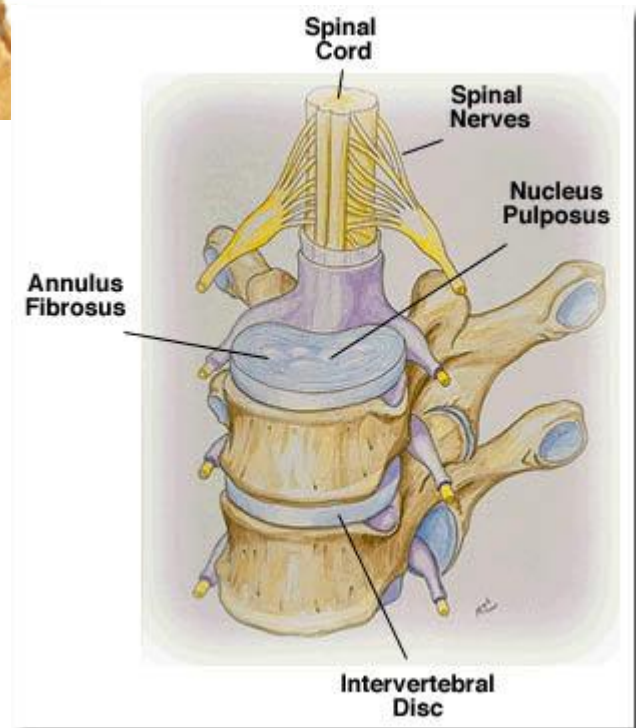
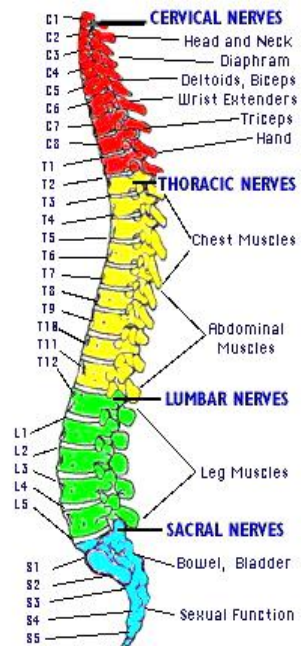
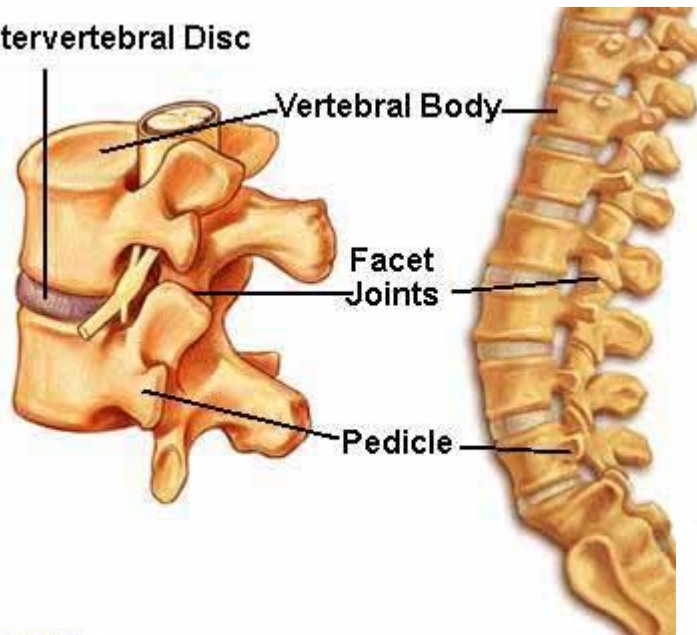
For the anterior column, the body (corpus) of adjacent vertebrae are fused (interbody fusion). The anterior column can be fused using an anterior, lateral, or posterior technique.

For the posterior column, posterior structures of adjacent vertebrae are fused (pedicle, lamina, facet, transverse process, or "gutter" fusion). A posterior column fusion can be performed using a posterior, posterolateral, or lateral transverse technique.



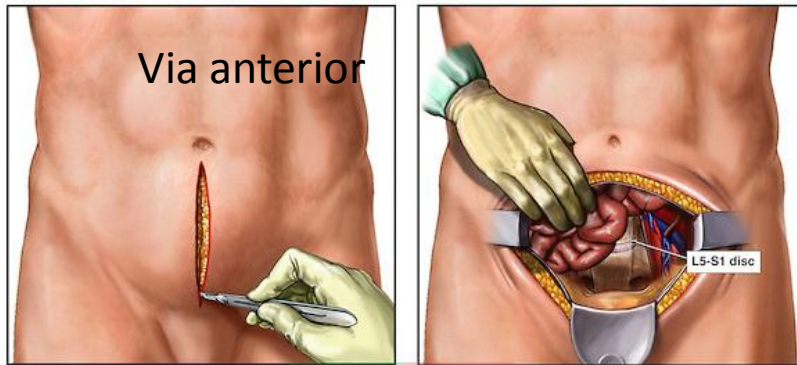


## Intervertebral Disc

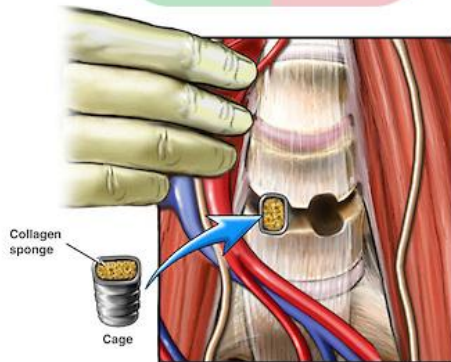




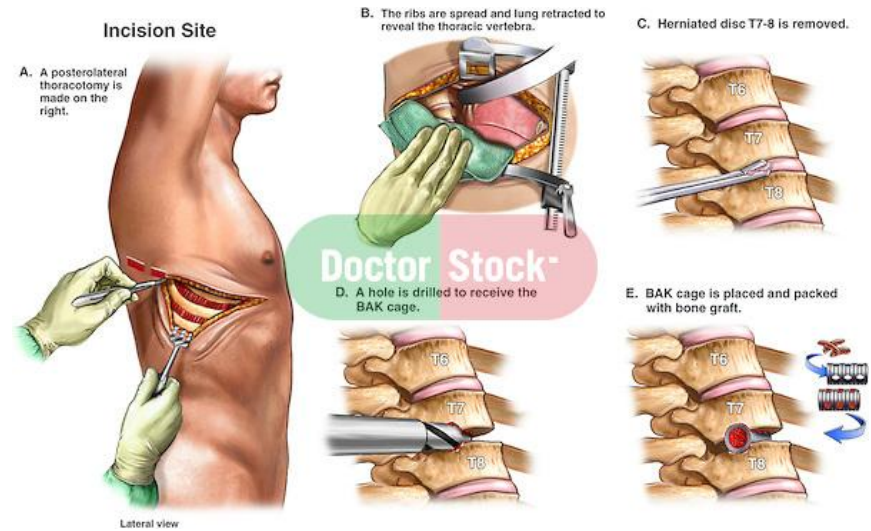
## Via anterior



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## Via anterior

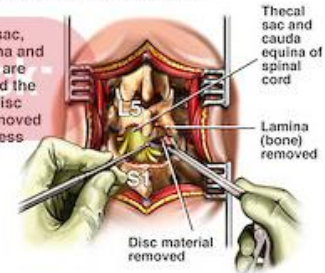


## Lumbar Decompression and Fusion Procedure

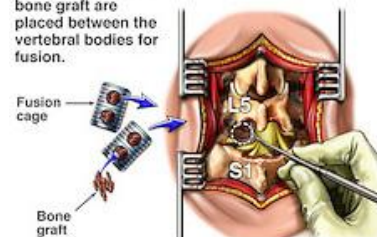
An incision is made into the lower back to expose the lumbo-sacral spine.



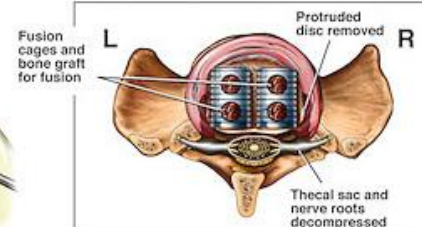
B. The thecal sac, cauda equina and nerve roots are exposed and the protruded disc material removed to decompress the spine.



Fusion cages and bone graft are placed between the vertebral bodies for fusion.



Final appearance from above with fusion cages



## Via posterior



column fusion can be performed using a posterior, posterolateral, or lateral transverse technique.

**INCLUDES** arthrodesis of spine with:  
bone graft  
internal fixation

Code also any: cages  
insertion of interbody spinal fusion device (84.51)  
insertion of recombinant bone morphogenetic protein  
(84.52)  
synchronous excision of (locally) harvested bone for graft  
(77.70-77.79)  
the total number of vertebrae fused (81.62-81.64)

**EXCLUDES** corrections of pseudarthrosis of spine (81.30-81.39)  
refusion of spine (81.30-81.39)

DEF: Spinal fusion: Immobilization of spinal column.

DEF: Anterior interbody fusion: Arthrodesis by excising disc and cartilage end plates with bone graft insertion between two vertebrae.

DEF: Lateral fusion: Arthrodesis by decorticating and bone grafting lateral surface of zygapophysial joint, pars interarticularis and transverse process.

DEF: Posterior fusion: Arthrodesis by decorticating and bone grafting of neural arches between right and left zygapophysial joints.

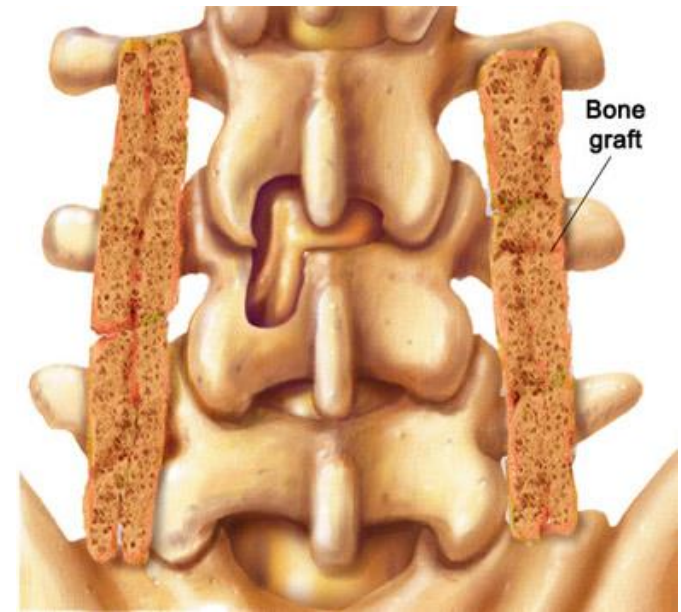
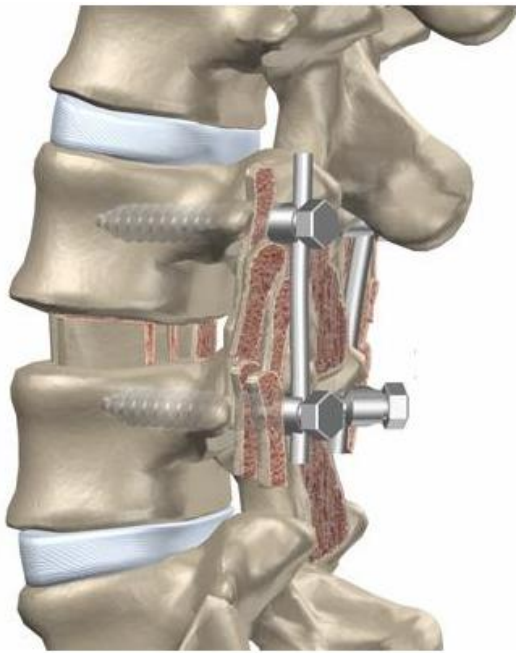
DEF: Posterolateral fusion: Arthrodesis by decorticating and bone grafting zygapophysial joint, pars interarticularis and transverse processes.

AHA: 4Q, '10, 125-127; 4Q, '03, 99

TIP: Assign also code 03.53 if the fusion was performed for treatment of acute traumatic spinal fracture.

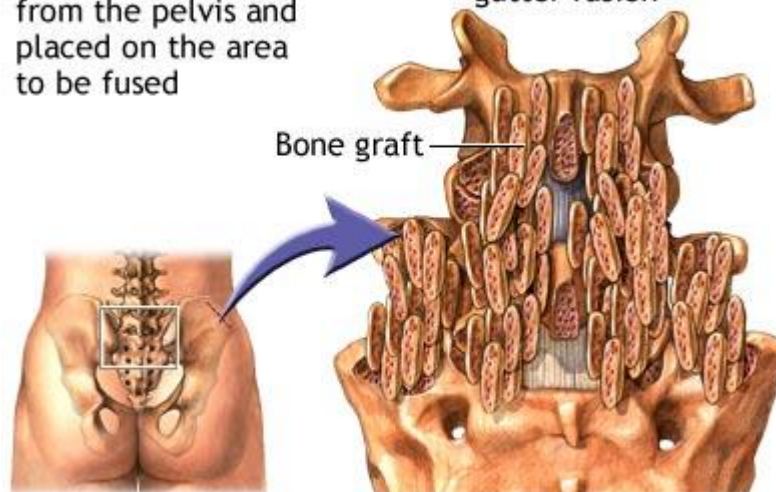
80.51-81.02





Bone grafts are taken from the pelvis and placed on the area to be fused

Posterolateral gutter fusion



processes.

AHA: 4Q, '10, 125-127; 4Q, '03, 99

TIP: Assign also code 03.53 if the fusion was performed for treatment of acute traumatic spinal fracture.



### 03.5 Plastic operations on spinal cord structures

#### 03.51 Repair of spinal meningocele

Repair of meningocele NOS

DEF: Restoration of hernial protrusion of spinal meninges through defect in vertebral column.

#### 03.52 Repair of spinal myelomeningocele

DEF: Restoration of hernial protrusion of spinal cord and meninges through defect in vertebral column.

#### 03.53 Repair of vertebral fracture

Elevation of spinal bone fragments

Reduction of fracture of vertebrae

Removal of bony spicules from spinal canal

**EXCLUDES** percutaneous vertebral augmentation  
(81.66)

percutaneous vertebroplasty (81.65)

AHA: 1Q, '07, 20; 4Q, '04, 126; 2Q, '02, 14; 4Q, '99, 11, 12, 13;  
3Q, '96, 14





## ✓ 4<sup>th</sup> 81.6 Other procedures on spine

### **NOTE** Number of vertebrae

The vertebral spine consists of 25 vertebrae in the following order and number:

cervical: C1 (atlas), C2 (axis), C3, C4, C5, C6, C7

thoracic or dorsal: T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, T12

lumbar and sacral: L1, L2, L3, L4, L5, S1

Coders should report only one code from the series 81.62-81.64 to show the total number of vertebrae fused on the patient.

Code also the level and approach of the fusion or refusion (81.00-81.08, 81.30-81.39)

AHA: 4Q, '03, 99

### **81.62 Fusion or refusion of 2-3 vertebrae**

AHA: 2Q, '11, 10; 1Q, '10, 23; 2Q, '09, 4-5; 2Q, '08, 14; 1Q, '08, 5; 1Q, '07, 20; 1Q, '06, 12, 13; 4Q, '05, 123; 4Q, '03, 99

### **81.63 Fusion or refusion of 4-8 vertebrae**

AHA: 1Q, '10, 23; 4Q, '03, 99-101

### **81.64 Fusion or refusion of 9 or more vertebrae**

AHA: 4Q, '03, 99

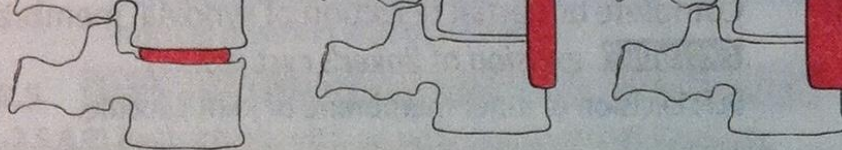
### **81.65 Percutaneous vertebroplasty**

Injection of bone void filler (cement) (polymethylmethacrylate) (PMMA) into the diseased or fractured vertebral body

**EXCLUDES** kyphoplasty (81.66)  
percutaneous vertebral augmentation (81.66)

AHA: 2Q, '08, 15





**81.03 Other cervical fusion of the posterior column, posterior technique**

Arthrodesis of C2 level or below, posterolateral technique

**81.04 Dorsal and dorsolumbar fusion of the anterior column, anterior technique**

Arthrodesis of thoracic or thoracolumbar region:  
anterior interbody fusion

anterolateral technique

Extracavitary technique

AHA: 3Q, '03, 19

**81.05 Dorsal and dorsolumbar fusion of the posterior column, posterior technique**

Arthrodesis of thoracic or thoracolumbar region,  
posterolateral technique

AHA: 2Q, '02, 16; 4Q, '99, 11

**81.06 Lumbar and lumbosacral fusion of the anterior column, anterior technique**

Anterior lumbar interbody fusion [ALIF]

Arthrodesis of lumbar or lumbosacral region:

anterior interbody fusion

anterolateral technique

retroperitoneal

transperitoneal

Direct lateral interbody fusion [DLIF]

Extreme lateral interbody fusion [XLIF]

AHA: 2Q, '08, 14; 1Q, '07, 20; 4Q, '05, 122; 4Q, '02, 107; 4Q, '99, 11



**81.05 Dorsal and dorsolumbar fusion of the posterior column, posterior technique**

Arthrodesis of thoracic or thoracolumbar region, posterolateral technique

AHA: 2Q, '02, 16; 4Q, '99, 11

**81.06 Lumbar and lumbosacral fusion of the anterior column, anterior technique**

Anterior lumbar interbody fusion [ALIF]

Arthrodesis of lumbar or lumbosacral region:

anterior interbody fusion

anterolateral technique

retroperitoneal

transperitoneal

Direct lateral interbody fusion [DLIF]

Extreme lateral interbody fusion [XLIF]

AHA: 2Q, '08, 14; 1Q, '07, 20; 4Q, '05, 122; 4Q, '02, 107; 4Q, '99, 11

**81.07 Lumbar and lumbosacral fusion of the posterior column, posterior technique**

Facet fusion

Posterolateral technique

Transverse process technique

AHA: 2Q, '11, 10; 2Q, '09, 4; 4Q, '02, 108

**81.08 Lumbar and lumbosacral fusion of the anterior column, posterior technique**

Arthrodesis of lumbar or lumbosacral region, posterior interbody fusion

Axial lumbar interbody fusion [AxiaLIF]

Posterior lumbar interbody fusion [PLIF]

Transforaminal lumbar interbody fusion [TLIF]

AHA: 2Q, '09, 4-5; 1Q, '08, 5; 1Q, '06, 12, 13; 4Q, '05, 122-123;



## 81.29 Arthrodesis of other specified joints

✓4<sup>th</sup>

### 81.3 Refusion of spine

#### NOTE

Spine fusion is classified by the anatomic portion (column) fused and the technique (approach) used to perform the fusion.

For the anterior column, the body (corpus) of adjacent vertebrae are fused (interbody fusion). The anterior column can be fused using an anterior, lateral, or posterior technique.

For the posterior column, posterior structures of adjacent vertebrae are fused (pedicle, lamina, facet, transverse process, or "gutter" fusion). A posterior column fusion can be performed using a posterior, posterolateral, or lateral transverse technique.

#### INCLUDES

arthrodesis of spine with:  
bone graft  
internal fixation  
correction of pseudarthrosis of spine

Code also any:

insertion of interbody spinal fusion device (84.51)

insertion of recombinant bone morphogenetic protein (84.52)

synchronous excision of (locally) harvested bone for graft (77.70-77.79)

the total number of vertebrae fused (81.62-81.64)

AHA: 4Q, '10, 125-127; 4Q, '03, 99; 4Q, '01, 64

81.39 Refusion of spine, not otherwise specified

## CODIFICANDO

**Fixação de D12 a L2**

**Via posterior**

**81.05**

**Fusão com enxerto - intertransversária**

**Redução de fractura L1**

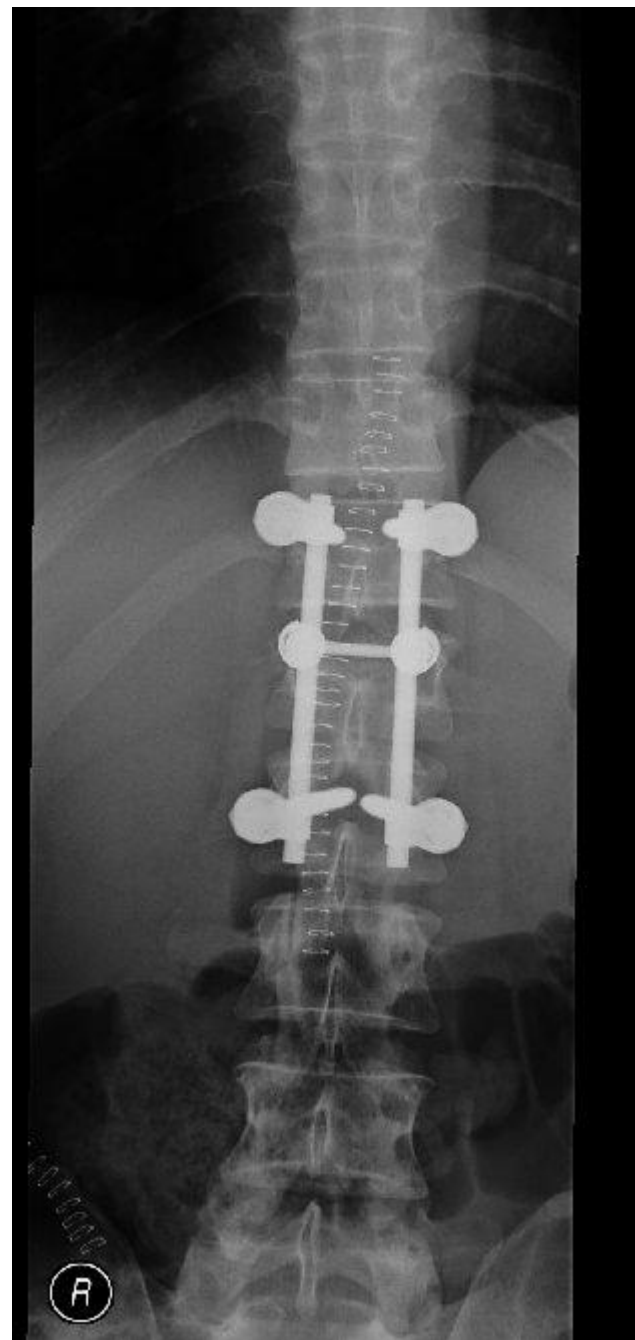
**03.53**

**3 vertebrae**

**81.62**

**Colheita de enxerto do ilíaco direito**

**77.79**





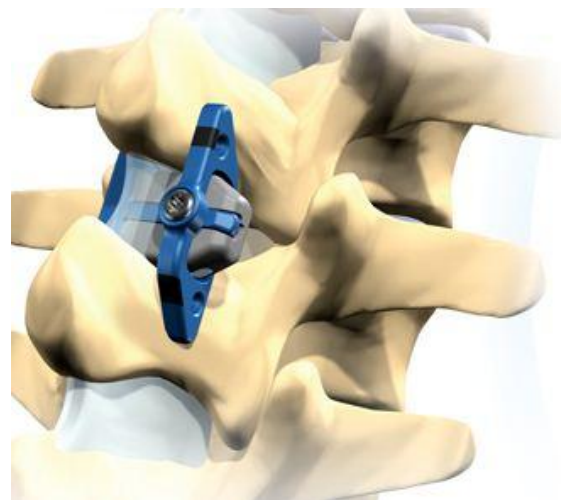
# Dispositivo de **estabilização** dinamica posterior da coluna vertebral

Espaçador inter-espinhoso

84.80

Revisão de espaçador  
inter-espinhoso

84.81



ESTA APRESENTAÇÃO NÃO TEM

**FIM**

OBRIGADA

